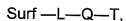


## ABSTRACT

A substrate comprises a surface, and a plurality of moieties, on at least a portion of the surface. The moieties are moieties of formula:



5

where  $-\text{T}$  comprises a reactant ligand, and Surf- designates where the moiety attaches to the surface. The substrate can be made into a protein chip by the reaction of a reactant ligand and a fusion polypeptide, where the fusion polypeptide includes a capture polypeptide moiety which corresponds to the reactant ligand.

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